



# Brian Tu

 brianstu.tech

 b2tu@uwaterloo.ca

 647-539-8988

 brianptu

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## SKILLS

- **Languages:** Javascript, Typescript, C, C++, Python, Java, GraphQL, SQL
- **Technologies:** Node.js, Express.js, Spring Boot, React, Vue.js, Socket.IO, MongoDB, Apollo Server, Git, Heroku
- **Software:** Salesforce, Postman, Docker, Figma

## EDUCATION

**University of Waterloo** | *Bachelor of Computer Science, Honours – 2A Term*

Sep 2020 - Apr 2025

- **Awards & Academics:** 3.90 GPA (90.0%); President's Scholarship of Distinction
- **Relevant Courses:** Designing Functional Programs (Advanced), Elementary Algorithm Design and Data Abstraction (Advanced)
- Project Developer at **UW Blueprint** – a student organization that promotes social good by building software for nonprofits.

## EXPERIENCE

**Stratus360** | *Full Stack Developer*

May 2021 - Aug 2021

- Created **Lighting Web Components** on the **Salesforce Lightning Platform** using Javascript, HTML/CSS on the client-side and **Apex** with **SOQL** queries on the server-side to provide a friendly user interface for a highway operator to manage data of charges and payments.
- Integrated data received from the ERP System API into Salesforce and **unit tested Apex classes** to ensure code coverage of over **90%**.
- Developed an application process for NPOs using **Salesforce Flow**, NPSP, and Formstack to manage data of **300+ applicants**.
- **Fostered collaborative client relationships**, presented demos to clients, and quickly made revisions based on changing requirements.

**TerraCycle Canada** | *Automation Developer*

Jun 2019 - Aug 2019

- Created a user interface in Excel using VBA to help warehouse workers **automate the creation of custom shipment labels** for products, resulting in **83% less time** needed to create labels.
- Coded a **chrome extension** used by the Director of Operations to download packaging label images from multiple tabs at once to **optimize manual work**.

## PROJECTS

**Qlear** 

May 2021

Awarded "Best use of DataStax Astra" @ TOHacks 2021

- Produced a web application for creating QR clothing tags to **promote product transparency** for the fashion industry.
- Implemented **REST API** using **Spring Boot** and **Apache Cassandra** (via DataStax Astra) with **React Typescript** frontend to store clothing product information and deployed client and server to **AWS** in under 24 hours.
- **Quickly grasped new technologies** and **set clear goals** amongst team members to ensure project milestones were achieved.

**Companion** 

Jan 2021

Awarded Honorable Mention @ nwHacks 2021

- Built a **smart social network** for those in times of hardship to find people to talk to, empowering positive social communication.
- Integrated **sentiment analysis** and **data visualization** of client statistics to track total user intent, messages, and time spent.
- Created private and public chats using **Socket.IO** to facilitate realtime chat functionality and cultivate healthy relationships.
- **Initiated group discussions** to provide and organize ideas for product features as well as **helped team members debug code**.

**Lemons Live** 

Oct 2020

Awarded Top 30 @ Digital Inclusion Challenge 2020

- Created a **real-time platform for interactive learning**, enabling teachers to engage their students by creating online team competitions.
- Built on a **Node.js, Express.js, MongoDB** stack and used **Socket.IO** to integrate online educative games for students and teachers.
- **Tackled issues in project ideation** and **offered suggestions and feedback** during team brainstorming and discussions.

## INTERESTS

- **(Sports)** soccer, basketball, running; **(Music)** guitar (6+ years) and music production; **(DIY)** guitar and mechanical keyboard